Data is the single most important component of any supply chain. Partial data leads to partial results, things happen but not at the level where they should.

Today, every passenger transit vehicle is equipped with multiple computers. Every system is controlled and monitored by a computer which generates data.

As long as an IoT is stationary and hardwired to a grid, everything works at the speed of light. However, vehicles are not hardwired to the grid. They are mobile IoTs. They operate all day off-grid for the most part and collect tons of important data which is transmitted to the grid via a wireless connection at the end of the shift. This is where weaknesses in the data chain hide.

Today’s wireless solutions all revolve around radiofrequency technologies, Wi-Fi, WiGig and, 4G/5G Cellular. Most are well known and have been in service for years. They all have their unique features, strengths and advantages accessing data from mobile IoTs.

With progress comes the demand for more data. It keeps increasing which continually raises the bar for wireless systems. Today, the data side of the equation far exceeds the ability of the wireless side to keep up. To deal with the data accumulation, on-board recorders have grown in storage capacity. Today, you can find transit vehicles in operation in North America with up to 50 Terabytes of storage on-board. The idea is to fall back on recordings if we need them later.

It’s like the black box of an airliner, it records all the data in the event of a crisis. When there is no crisis, the data is wiped and all its intrinsic value is lost.

We are In A Blink, we have created a revolutionary wireless link to transfer data between infrastructure and mobility.

At 2.5-Gbps, we transfer data 200 times faster than Wi-Fi with amazing, advanced Photonics Technology. We call it Virtual Fiber Optics (VFO™).

We can move all the data stored in the vehicles to ground-based servers where it will be instantly available. No more Terabytes of valuable data rolling around in uncontrolled environments. No more lost or corrupted data when the time comes to retrieve it for investigations.

Our drop-in replacement solution will increase the capacity and capability of trackside monitoring and CCTV systems by allowing more cameras and better resolutions. And we do this without choking the vehicle network or wireless communication links.

We can virtualize the entire fleet as a digital vehicle image and have the data processed with advanced analytics.

Direct benefits include immediate access to enhanced security footage for review and analysis, quicker resolution of crimes and claims, data mining for improved analytics to improve the passenger experience, implementation of predictive and preventive maintenance business strategies, and more.

In A Blink contributes directly to improve security, efficiency and your passengers' journey in your fleet.

Please visit Booth-3621 to see VFO™ live.